KNOCK DETECTION DEVICE

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ABSTRACT OF THE DISCLOSURE

A knock detection device that can not only detect knock accurately, but can also detect heavy knock quickly. Cylinder pressure is detected by a pressure sensor installed in each cylinder in an internal combustion engine. As the occurrence or non-occurrence of heavy knock is determined based on the ratio between the maximum value of cylinder pressure fluctuation and the maximum value of cylinder pressure divided by a prescribed value, it becomes possible to detect the occurrence of heavy knock quickly. If it is determined that heavy knock has occurred, a knock suppression measure involving, for example, reducing the spark advance angle, is immediately applied, thus preventing damage to the internal combustion engine.